Arizona Public Safety Broadband Network Program Overview & Upcoming Grant Program

Presentation to the PSCC/SIEC Joint Meeting

March 5, 2013

Public Safety Interoperable
Communications Office

National Public Safety Broadband Network

- By Federal legislation, the First Responder Network Authority (FirstNet - an independent authority within the National Telecommunications & Information Administration (NTIA)) has been tasked with building a nationwide wireless public safety broadband network (NPSBN).

- The NPSBN will be used by federal, tribal, state and local public safety agencies. Once built out, the NPSBN will be managed and maintained by FirstNet as a self-supporting, fee-based network.

- Some public safety agencies already use broadband, but 4G LTE will allow faster and more robust data transfers of videos, building plans, real-time GIS mapping, etc.

Federal Legislation

- The Broadband Federal Legislation

  - Provides $7B for the build out of the national public safety wireless network (NPSBN)

  - Allocates the so called "D-block" spectrum to Public Safety; Allows for network funding through public / private partnerships and sharing of spectrum

  - Requires FirstNet to work with State, Local and Tribal entities; Provides $135M nationally for states to perform outreach and collect data for planning the national network

- Each State is required to identify a single point of contact to work with FirstNet/NPSBN; In Arizona, this is the State CIO, Aaron Sandeen who serves as Chair of the PSCC and who oversees the PSIC Office in ADOA-ASET
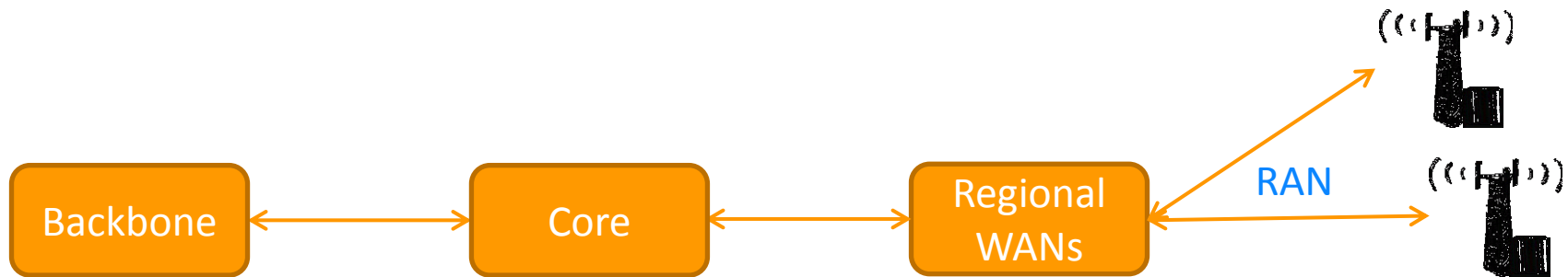
Planned Network Architecture

Ultimately, each State will decide how they will participate in the build out of the network:

Opt In (*Default*)
- FirstNet responsible for building the entire network (Backbone, Core, Regional WANs and RAN)
- State and Local Agencies pay fees for operating on the network
- Agencies within the state pay for User Equipment (UE)
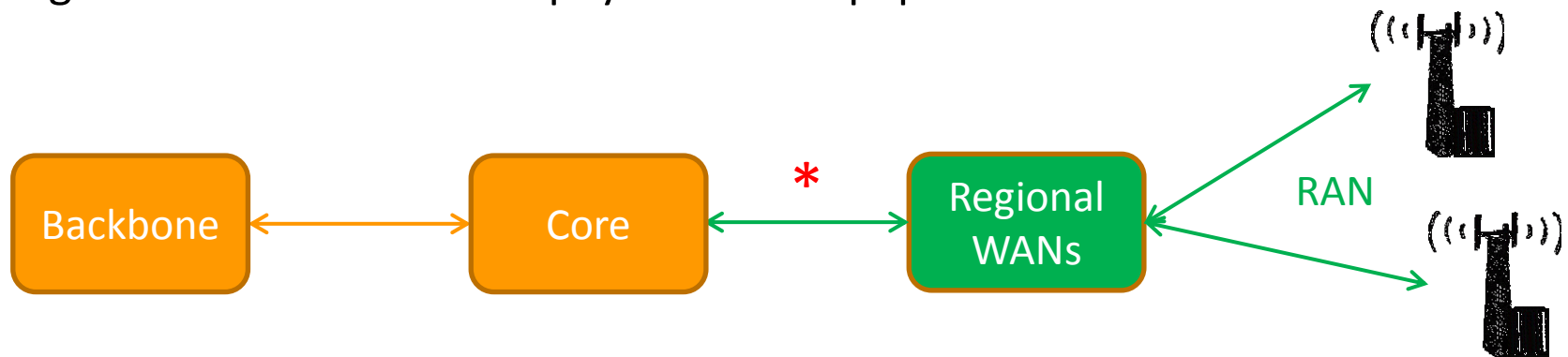- States Negotiate SLAs with FirstNet


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Backbone  <-->  Core  <-->  Regional WANs  --RAN-->
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Opt Out

- FirstNet responsible for building the Backbone and Core
- State responsible for building the Regional WANs and RAN
- NTIA Grants (80/20) available to States for build-out of WAN and RAN
- State and Local agencies pays fees to FirstNet for Core and Backbone
- Enables State to charge subscriber and other fees to enable maintenance and expansion
- Agencies within the State pay for User Equipment

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Backbone <-----> Core  *<-----> Regional WANs <-----> RAN
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Grant Overview

- Purpose of the State and Local Implementation Grant Program (SLIGP) grant program is:

  - To assist State's in gathering their agencies' requirements for the public safety broadband network - evaluate the impact of the future network on current day to day operations

  - To prepare for upcoming negotiations with FirstNet on the build out of the network within each state.

- Overview

  - $135M nationwide – Arizona's portion is ~$3 million

  - Guidance issued February 6th; Grant Submission Due March 19th

Grant Phases & Focus

- Phase 1 – July 2013 to June 2014: Education and Outreach: to inform and educate public safety stakeholders statewide; to determine how the new technology may impact governance and operations

- Phase 2 – July 2014 to June 2016: Data Collection: to collect agency data, coverage requirements, budget considerations, to determine <u>possible</u> participants and <u>possible</u> shared infrastructure

- AZ Outreach and Data Collection to cover:
  - Law Enforcement: 250 agencies – 375 locations/facilities
  - Fire: 275 agencies – 750 locations/facilities
  - EMS: 85 ground & 18 air agencies
  - PSAP/dispatch: 90 primary & secondary
  - *Transportation, Public Works, Water Departments, etc.*

Phase 1 Outreach

- SLIGP Phase 1 – Education and Outreach program will be developed as part of the grant program and may include:

  - Presenting the background & goals for the NPSBN

  - Reviewing Governance – National, Tribal, State, Regional and Local

  - 4G LTE Examples and Demonstrations

  - Collecting survey data as part of an OEC Technical Assistance award

  - Setting expectations on timing, costs, funding and business models

Outreach Approach

- A Kickoff meeting in each County and localized meetings in each County based on density:

ARIZONA					
Population per square mile, 2010 - (No. of people per square mile)					
County	Value		Blocks with # meetings per block	Total per block	Counties per block
Maricopa	415				3
Pima	107	308	11	33	
Pinal	70	37			
Santa Cruz	38	32			7
Yuma	36	3			
Yavapai	26	10			
Cochise	21	5	5	35	
Mohave	15	6			
Gila	11	4			
Navajo	11	1			
Graham	8	3			5
Coconino	7	1			
Apache	6	1	2	10	
Greenlee	5	2			
La Paz	5	0			
				78	

- Meetings with Tribal nations

- Meetings with Associations, CIO councils, RACs, etc.

Phase 2 Data Collection & Beyond

- SLIGP Phase 2 – Data collection

  - Data collection defined within one year by FirstNet/NTIA

  - Data collection driven by our State needs for coverage requirements

  - Possible infrastructure sharing dependent on rate discount or public/private partnerships

- A detailed approach for Phase 2 will be developed as FirstNet releases information on their data collection requirements.

- States are responsible to work with FirstNet to assure that the States' requirements are understood and to assist FirstNet in meeting the States' needs

Grant Details

- Timelines
  - Grant released February 6, 2013
  - PSIC Office has been working with AZPSBN Workgroup on the Application and they have reviewed the application
  - In addition, the application is being reviewed by DPS, AZDOHS, ADOA and the Governor's office
  - PSIC Office will submit Arizona's application on or before March 19, 2013
  - Award notices from NTIA expected July 15, 2013
  - 3 year period of performance

SLIGP Grant

- AZ SLIGP Financials

  - Amount available : $2,981,000 (formula based)

  - Required matching contribution: $745,250

  - 50% reserved until FirstNet authorizes the State to proceed with data collection

  - All funds obligated at the time of award.

More Information

Track this Initiative on the PSIC Office Website [Broadband page](#)

Sign up for our Interested Parties [email list](#)

Discussion; Questions?

Thank You!

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